

We claim:

1. A device for mounting a substrate to be coated,
comprising:

a susceptor for supporting a substrate;

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56 said susceptor including an insert having a surface; and

a metal carbide layer of a given thickness forming at least a portion of said surface.

2. The device according to claim 1, wherein said insert includes a plurality of tiles, each of said tiles being provided for a respective substrate.

3. The device according to claim 2, wherein each of said tiles is formed with a depression for the respective substrate.

4. The device according to claim 1, wherein said insert includes a graphite core, said metal carbide layer covers said graphite core.

5. The device according to claim 1, wherein said insert includes a metal core, said metal carbide layer covers said metal core.

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6. The device according to claim 1, wherein said given thickness of said metal carbide layer decreases with an increasing distance from the substrate.

7. The device according claim 1, wherein said metal carbide layer includes tantalum carbide.

8. The device according to claim 1, wherein said metal carbide layer includes niobium carbide.

9. The device according to claim 1, wherein said metal carbide layer includes tungsten carbide.

10. The device according to claim 1, wherein said metal carbide layer includes molybdenum carbide.

11. A method for producing an insert for a susceptor, the method which comprises:

producing a metallic preform;

embedding the metallic preform in a carbon-containing powder;

427.
coating
step heating the metallic preform and the carbon-containing powder to an elevated temperature for providing a heat-treated preform;

hard processing the heat-treated preform for providing a hard-processed preform having a surface layer made of a metal carbide; and

29? disposing the hard-processed preform as an insert on a susceptor.

12. The method according to claim 11, which comprises performing the heating step under an elevated pressure.

13. The method according to claim 11, which comprises heating the metallic preform and the carbon-containing powder to the elevated temperature of between 1500°C and 2000°C.

14. The method according to claim 11, which comprises using a silicon carbide powder as the carbon-containing powder.

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